

APPENDIX A

THE 2030S

XML	version	1.0			
	encoding	UTF-8			
Comment	edited with XML Spy v3.5 NT (http://www.xmlspy.com) by Cassio Goldschmidt (Cisco Systems)				
PopupMenuItems	1 or more sequence of				
	El PopupMenuItem 1 or more				
PopupMenuItem	1 or more sequence of				
	El ClickAction 1 or more				
ClickAction	EMPTY				
ClickAction attribute list					
	Attribute Name	Attribute Type	Attribute Values	Attribute Presence	Attribute Default
	1 command	CDATA		#REQUIRED	
	2 type	Choice	Values	#REQUIRED	
			El Text		
			1 HTML		
			2 XML		
			3 TOPO		
DoubleClickAction	EMPTY				
DoubleClickAction attribute list					
	Attribute Name	Attribute Type	Attribute Values	Attribute Presence	Attribute Default
	1 command	CDATA		#REQUIRED	
	2 type	Choice	Values	#REQUIRED	
			El Text		
			1 HTML		
			2 XML		
			3 TOPO		
Comment	useGrid: default is false				
useGrid	EMPTY				
Comment	fitInWindow (default is true)				
fitInWindow	EMPTY				
Comment	background: default is white without pictures				
background	EMPTY				
Comment					
Comment	This is the main element - the root of everything else				
graph	0 or more choice of				
	El useGrid	0 or 1			
	El fitInWindow	0 or 1			
	El centerOn	0 or 1			
	El background	0 or 1			
	El buttons	0 or 1			
	El layoutType	0 or 1			
	El PopupMenuite...	0 or 1			
	El nodes	0 or 1			
	El edges	0 or 1			
useGrid attribute list					
	Attribute Name	Attribute Type	Attribute Values	Attribute Presence	Attribute Default
	1 set	Choice	Values	#REQUIRED	
			El Text		
			1 true		
			2 false		
Comment	fitInWindow, by definition, also means center graph				
fitInWindow attribute list					
	Attribute Name	Attribute Type	Attribute Values	Attribute Presence	Attribute Default
	1 set	Choice	Values	#REQUIRED	
			El Text		
			1 true		
			2 false		
Comment	CenterOn Values: graph, node, none If node is choosen, fitInWindow must be false (default is none)				
centerOn	#PCDATA				
Comment	img="" means clean-up current img, otherwise use img= a URL, color is a color entry in Hexadecimal (e.g. FFFFFFF for white, FF0000 for red), center is a comma separated x,y coordinate				
background attribute list					
	Attribute Name	Attribute Type	Attribute Values	Attribute Presence	Attribute Default
	1 img	CDATA		#REQUIRED	
	2 color	CDATA		#IMPLIED	
	3 center	CDATA		#IMPLIED	
Comment	layoutType can be Circular, Hierarchical, Orthogonal and ... (default is none)				
layoutType	#PCDATA				
Comment					
Comment	Definition of node and nodes				
nodes	1 or more sequence of				
	El node				
node	0 or more choice of				
	El tooltip	0 or 1			
	El location	0 or 1			
	El DoubleClickActi...	0 or 1			
	El PopupMenuite...	0 or 1			
node attribute list					
	Attribute Name	Attribute Type	Attribute Values	Attribute Presence	Attribute Default
	1 label	CDATA		#REQUIRED	
	2 img	CDATA		#REQUIRED	
Comment					
Comment	Definition of toolbar buttons				
buttons	1 or more sequence of				
	El button				
button	1 or more sequence of				
	El tooltip	0 or 1			
	El ClickAction	1 or more			

0 or 1	Att tooltip			
button attribute list				
	Att Name	Att Type	Att Values	Att Presence
	1 label	CDATA		#REQUIRED
0- Comment	A tooltip for the node/button			
Att tooltip	#PCDATA			
0- Comment	The x,y location for a node			
Att location	#PCDATA			
0- Comment	Definition of edges and edge			
0- Comment	Definition of edges and edge			
edges 1 or more sequence of				
	Att edge	1 or more		
edge 0 or more choice of				
	Att label	0 or 1		
	Att color	0 or 1		
	Att type	0 or 1		
	Att PopupMenu...	0 or 1		
edge attribute list				
	Att Name	Att Type	Att Values	Att Presence
	1 source	CDATA		#REQUIRED
	2 target	CDATA		#REQUIRED
0- Comment	Edge's label, default is none			
Att label	#PCDATA			
0- Comment	Edge's color in Hexadecimal (e.g 000000 is black, 00FF00 is green), default is black			
Att color	#PCDATA			
0- Comment	Type: A number that represents the edge to be used: 1=One way arrowed edge, 2=One way reversed arrowed edge, 3=double arrow edge (both directions), 4=no arrows (default)			
Att type	#PCDATA			

## APPENDIX B

```
<?xml version='1.0'?>
<graph>
  <!-- fitInWindow, by definition, also means center graph -->
  <fitInWindow set="false"/>
  <!-- CenterOn Values: graph, node, none
  if node is choosen, fitInWindow must be false -->
  <centerOn>node</centerOn>
  <Nodes>
    <node label="ATHENS" img="http://eman-
dev/AppletTest/Images/32x32-end_station_blue.gif">
      <tooltip>ATHENS</tooltip>
      <DoubleClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=ATHENS&Hops=1&Data
Type=1" type="XML"/>
      <PopupMenuItems>
        <PopupMenuItem label="Site links...">
          <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=ATHENS&Hop
s=1&DataType=3" type="HTML"/>
        </PopupMenuItem>
        <PopupMenuItem label="Routers...">
          <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=ATHENS&Hop
s=1&DataType=2" type="HTML"/>
        </PopupMenuItem>
        <PopupMenuItem label="Subnets...">
          <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=ATHENS&Hop
s=1&DataType=4" type="HTML"/>
        </PopupMenuItem>
      </PopupMenuItems>
    </node>
    <node label="BIRMINGHAM" img="http://eman-
dev/AppletTest/Images/32x32-end_station_blue.gif">
      <tooltip>BIRMINGHAM</tooltip>
      <DoubleClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=BIRMINGHAM&Hops=1&
DataType=1" type="XML"/>
      <PopupMenuItems>
        <PopupMenuItem label="Site links...">
          <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=BIRMINGHAM&
Hops=1&DataType=3" type="HTML"/>
        </PopupMenuItem>
        <PopupMenuItem label="Routers...">
          <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=BIRMINGHAM&
Hops=1&DataType=2" type="HTML"/>
        </PopupMenuItem>
        <PopupMenuItem label="Subnets...">

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        <ClickAction command="http://eman-
        dev/ADTopo/ADTopo.cgi?SiteCode=BIRMINGHAM&
        ;Hops=1&DataType=4" type="HTML"/>
    </PopupMenuItem>
</PopupMenuItems>
</node>
<node label="BRENTWOOD" img="http://eman-
dev/AppletTest/Images/32x32-end_station_blue.gif">
    <tooltip>BRENTWOOD</tooltip>
    <DoubleClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=BRENTWOOD&Hops=1&D
ataType=1" type="XML"/>
    <PopupMenuItems>
        <PopupMenuItem label="Site links...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=BRENTWOOD&
Hops=1&DataType=3" type="HTML"/>
        </PopupMenuItem>
        <PopupMenuItem label="Routers...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=BRENTWOOD&
Hops=1&DataType=2" type="HTML"/>
        </PopupMenuItem>
        <PopupMenuItem label="Subnets...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=BRENTWOOD&
Hops=1&DataType=4" type="HTML"/>
        </PopupMenuItem>
    </PopupMenuItems>
</node>
<node label="MPH-CS1" img="http://eman-
dev/AppletTest/Images/32x32-end_station_blue.gif">
    <tooltip>MPH-CS1</tooltip>
    <DoubleClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=MPH-
CS1&Hops=1&DataType=1" type="XML"/>
    <PopupMenuItems>
        <PopupMenuItem label="Site links...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=MPH-
CS1&Hops=1&DataType=3" type="HTML"/>
        </PopupMenuItem>
        <PopupMenuItem label="Routers...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=MPH-
CS1&Hops=1&DataType=2" type="HTML"/>
        </PopupMenuItem>
        <PopupMenuItem label="Subnets...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=MPH-
CS1&Hops=1&DataType=4" type="HTML"/>
        </PopupMenuItem>
    </PopupMenuItems>
</node>

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<node label="RTP" img="http://eman-dev/AppletTest/Images/32x32-
end_station_blue.gif">
  <tooltip>RTP</tooltip>
  <DoubleClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=RTP&Hops=1&DataTyp
e=1" type="XML"/>
  <PopupMenuItems>
    <PopupMenuItem label="Site links...">
      <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=RTP&Hops=1
&DataType=3" type="HTML"/>
    </PopupMenuItem>
    <PopupMenuItem label="Routers...">
      <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=RTP&Hops=1
&DataType=2" type="HTML"/>
    </PopupMenuItem>
    <PopupMenuItem label="Subnets...">
      <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=RTP&Hops=1
&DataType=4" type="HTML"/>
    </PopupMenuItem>
  </PopupMenuItems>
</node>
<node label="ATLANTA" img="http://eman-
dev/AppletTest/Images/32x32-end_station_blue.gif">
  <tooltip>ATLANTA</tooltip>
  <DoubleClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=ATLANTA&Hops=1&Dat
aType=1" type="XML"/>
  <PopupMenuItems>
    <PopupMenuItem label="Site links...">
      <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=ATLANTA&Ho
ps=1&DataType=3" type="HTML"/>
    </PopupMenuItem>
    <PopupMenuItem label="Routers...">
      <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=ATLANTA&Ho
ps=1&DataType=2" type="HTML"/>
    </PopupMenuItem>
    <PopupMenuItem label="Subnets...">
      <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=ATLANTA&Ho
ps=1&DataType=4" type="HTML"/>
    </PopupMenuItem>
  </PopupMenuItems>
</node>

</Nodes>
<Edges>
  <edge source="ATLANTA" target="ATHENS">
    <label>2717</label>
  </edge>
  <edge source="ATLANTA" target="BIRMINGHAM">
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        <label>32767</label>
    </edge>
    <edge source="ATLANTA" target="BRENTWOOD">
        <label>10922</label>
    </edge>
    <edge source="ATLANTA" target="MPH-CS1">
        <label>10922</label>
    </edge>
    <edge source="ATLANTA" target="RTP">
        <label>2716</label>
    </edge>
</Edges>
</graph>
```

4040 5050 6060 7070 8080 9090

```
<?xml version='1.0'?>
<graph>
  <useGrid set="false"/>
  <!-- fitInWindow, by definition, also means center graph -->
  <fitInWindow set="true"/>
  <!-- CenterOn Values: graph, node, none
    if node is choosen, fitInWindow must be false -->
  <centerOn>graph</centerOn>
  <!-- Img="null" means clean-up current img -->
  <!-- <background color="FFFFFF" img="http://cassio-
    7020/AppletTest/Images/32x32-end_station_yellow.gif"
    style="IMAGE_TILE"/> -->
  <!-- <background color="00F000" img="null"/> -->
  <background img="http://cassio-7020/AppletTest/Images/32x32-
    end_station_yellow.gif" center="10,10"/>
  <!-- <layoutType>Hierarchical</layoutType> -->
  <layoutType>Hierarchical</layoutType>
  <nodes>
    <node label="Node on the Fly" img="http://cassio-
      7020/AppletTest/Images/32x32-end_station_red.gif">
      <tooltip>Behold!!!!</tooltip>
      <location>50,100</location>
    </node>
    <node label="More Node on the Fly" img="http://cassio-
      7020/AppletTest/Images/32x32-end_station_yellow.gif">
      <!-- No tooltip -->
    </node>
    <select/>
    </node>
    <node label="Unknown node" img="http://cassio-
      7020/AppletTest/Images/32x32-end_station_blue.gif">
      <!-- I just changed the icon of an existing node -->
    </node>
  </nodes>
  <edges>
    <!-- Edge types:
      1: one way arrow
      2: reverse arrow
      3: two arrows
      4: no arrows -->
    <edge source="Node on the Fly" target="Unknown node">
      <label>A new Label...</label>
      <color>0000FF</color>
      <!-- No edge type -->
    </edge>
    <edge source="Node on the Fly" target="More Node on the Fly">
      <!-- No label -->
      <color>00FF00</color>
      <type>3</type>
    </edge>
  </edges>
</graph>
```